COMS B34 - SQL/DATABASE SYSTEMS DESIGN
BAKERSFIELD COLLEGE – FALL 2013
Business Education 2, M 6:00 – 9:10 p.m. (CRN: 70942)

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Office Hours:	M 9 – 11, 2:30 – 6
	T 11 – 2 (thru 11/7)
	W 9 – 11, 2:30 – 3:30
	R 11 – 1 (thru 11/7)

Course Description:

This course emphasizes "best practices" for relational database design (modeling) and the use of Structured Query Language (SQL) for database manipulation. Normalization, data diagramming, concurrency and other key database concepts will be discussed. The use of Microsoft Access, MySQL, Microsoft SQL Server, and other database management systems will be used to demonstrate concepts. Upon successful completion of this course, students will be able to design real world databases and manipulate them using SQL.

Recommended:

At least one programming language or application that uses formatted data files (COMS B10, B12, B14, B16, B25, B32, B36, B68a)

Course Materials Needed:

- Pratt and Adamski, Concepts of Database Management 7e, Course Technology, ISBN-10: 1-111-82591-2 ISBN-13:978-1-111-82591-1
- A Flashdrive is recommended, especially if you will be using the campus computer labs for assignments
- Three (3) green 100-answer test scan sheets (FORM NO. 882-ES). **Keep these in pristine condition!**

Course Tasks:

Your grade will be based on the following tests and assignments.

4-5 assignments @ 20 points each	80-100
1 Final Project	75
3+ Pop quizzes @ 10 points each	30+
3 Exams @ 75 points each	225

Follow these policies on assignments or points will be deducted:

- **Clearly** list on your assignment your name, and the assignment name
- Do not use paper that has torn edges; i.e., from a spiral notebook
- On multi-page assignments, neatly put the pages in order and staple the pages in the upper left corner. Do not fold pages or use paper clips to combine pages. **I WILL NOT BRING A STAPLER TO CLASS!!!**
- **Do not** use a cover page for your assignments or put them in a folder or binder
- Up to 20% will be deducted from your score if you do not follow these policies

PowerPoint slides of the lectures presented in class and all assignments and handouts will be distributed through the Private Page web address listed at the top of this syllabus. The slides will usually be available for downloading at least 12 hours before class. It is recommended that you print them and bring them to class and make YOUR notes on them. (I suggest printing them at 4 or 6 slides per page to conserve paper.) The slides by themselves convey little information and will be of minimal assistance in your exam preparations. Your notes add meaning to them and WILL help you prepare for the exam.

Grading:

Grades will be based on the percentage of total semester points earned, computed as follows:

- Raw Percent = Total points earned /Total points possible * 100
- Final Grade Percent = (Total points earned – (Low Quiz + Low Assignment + Low Exam))/(Total Points possible – 80) * 100
- 90%+ = A, 80-89.99% = B, 70-79.99% = C, 60-69.99% = D, below 60% = F. (**I do not curve grades**)
- **Borderline Grades will be determined by class participation!!!** Participation that adds quality to the class discussions will improve your grade.

YOU should keep track of your grade throughout the semester. Keep all assignments as proof of grades received in the **RARE** case of bookkeeping errors on my part.

Student Learning Outcomes (Top 5 representing focus of the course and the expectations of the instructor)

- The student will design fully normalized databases.
- The student will compare and contrast traditional flat-file data systems with modern relational database management systems.
- The student will issue SQL commands and manipulate databases. Both DDL and DML commands will be used.
- The student will demonstrate the benefits gained from client/server systems by using MySQL, Microsoft SQL Server and other DBMSs.
- The student will apply database design principals by creating a real world database system that automates a traditional manual system. The system must include user documentation including a user manual.

Academic Dishonesty:

Unfortunately, the subject of academic dishonesty must be discussed for those who are inclined toward such activities. The campus's policy is listed in the campus catalog. Please review it for specifics. There is no need to engage in any unethical behavior in this class! If you need help, my door is always open. For those who need some explanation of what academic dishonesty is…

Academic dishonesty involves acts that may subvert or compromise the integrity of the educational process. Included is any act by which a student gains or attempts to gain an academic advantage for himself/herself, or another, by misrepresenting his/her, or another's work or by interfering with the completion, submission, or evaluation of work. These include, but are not limited to, accomplishing or attempting any of the following acts:

- Using any materials that are not authorized by the instructor for use during an examination
- Copying from another student's paper during an examination
- Collaborating (i.e., talking, passing notes and/or signals, etc.) during an examination with any other person by giving or receiving information without specific permission of the instructor
- Stealing, buying or otherwise obtaining information about a course's graded material
- Substituting for another person or permitting any other person to substitute for oneself to take an examination
- Submitting another person's work as yours either in its original or altered form
- Giving someone else your work to fulfill his/her assignment
- Plagiarizing

Late assignments, Make-up Exams/Quizzes, and time allowed for Exams/Quizzes:

MAKE-UP EXAMS OR QUIZZES WILL NOT BE GIVEN AND LATE ASSIGNMENTS WILL NOT BE ACCEPTED. NO EXCEPTIONS. **DO NOT ASK.** You will, however, be allowed to drop your lowest exam score, your lowest quiz score and your lowest assignment score (except for the final project … it CANNOT be dropped or turned in late).

Assignments are due at the BEGINNING of the class session. I will announce, "Last call", and after that announcement assignments will not be accepted. **NO e-mailed or faxed assignments will be accepted.** You may always arrange to turn in assignments or take exams in advance of the scheduled times.

Exams and quizzes will be timed. Quizzes will be given at random times. You will not be given extra time to complete an exam or quiz if you start late.

Extra Credit:

There will be no opportunity to earn extra credit.

Attendance policy:

Attendance is MANDATORY. The attendance policy as outlined in the campus catalog will be enforced. Students must notify me in the event of class absences. Any student that is absent for more than two weeks without prior instructor notification <u>may</u> be dropped from the course. If you do not want to be in the class then **YOU must drop yourself from the course.** I **will not** retroactively drop you if you miss one of the "last day" to drop the course dates. These dates are listed in class schedule and in the online campus schedule "Important Dates" section. It is also expected that students will notify me before class in the **RARE** instance of needing to leave class early. Students, not notifying me in advance, will be marked absent upon their early departure.

Classroom Etiquette

The basic rule underlying classroom etiquette is **having consideration for others**. The following list of guidelines has been assembled to help you understand what this means.

- Leave pagers/cell phones at home, or turn them off and respond to them **AFTER** class ends. Do not leave class to answer the phone and do not text message (it is just as distracting to others as talking). A student may receive a 10-point grade reduction each time their ringer/buzzer/tune-player goes off in class. If you must leave during class for **any** reason, please take your personal belongings with you because you will be finished for that classroom session.
- Personal computers or other electronic devices are not to be used in class.
- On the rare occasion that you cannot arrange childcare, **well-behaved** children are welcome in class. Bring them something quiet to occupy their time and please sit in the back of the classroom.
- Prepare your desk (take your books out, etc.) before lecture starts. Prepare to leave when the lecture is over, not five minutes before.
- Do not conduct personal conversations during class. Even though you may be speaking in a very low tone, your voice will carry and disturb others around you. Please conduct your conversations outside of the classroom.
- No eating in the classroom.
- Sleeping is not allowed. If you are tired, please rest outside of the classroom. You will be asked to leave if you sleep during class.

Special Considerations

Students with disabilities who believe they may need accommodations in this class are encouraged to contact Disabled Student Programs & Services located at Student Services Building, 1st Floor, Counseling Center (661-395-4334), as soon as possible to better ensure such accommodations are implemented in a timely fashion.

COMS B34 - READING AND CLASS SCHEDULE

Date	Reading	Topic(s) and Items of Interest
M 8/26	Ch. 1	Orientation & Introduction to Database Management
M 9/2 F-9/6	No Class	Labor Day Holiday ***** Last day for refunds for semester length classes**
M 9/9	Ch. 2	The Relational Model 1: Introduction, QBE, and Relational Algebra Microsoft Access Overview ***** Last day to drop for semester length classes w/o receiving W**
M 9/16	Ch. 3	The Relational Model 2: SQL **Assignment #1 Due**
M 9/23	Ch. 3, cont.	The Relational Model 2: SQL **Assignment #2 Due**
M 9/30	Ch. 3, cont.	The Relational Model 2: SQL Assignment #3 Due
M 10/7	Ch. 3, cont.	The Relational Model 2: SQL Enhanced form techniques with Microsoft Access **Exam #1**
M 10/14	Ch. 4	The Relational Model 3: Advanced Topics **Assignment #4 Due**
M 10/21	Ch. 5	Database Design 1: Normalization
M 10/28 F 11/1	Ch. 5, Ch. 6	Database Design 1: Normalization, Database Design 2: Design Method ***** Last day to withdraw from class and receive a W**
M 11/4	Ch. 5, Ch. 6	Database Design 1: Normalization, Database Design 2: Design Method
M 11/11	No Class	Veteran's Day Holiday
M 11/18	Ch. 5, Ch. 6	Database Design 1: Normalization, Database Design 2: Design Method **Exam #2** **Assignment #5 Due**
M 11/25	Ch. 7	DBMS Functions
M 12/2	Ch. 8, Ch. 9	Database Administration, Database Management Approaches **Final Projects Due**
M 12/9	6 – 7:50 pm	**Exam #3 – Comprehensive**

*** READ THE MATERIAL FOR THE WEEK <u>BEFORE</u> THE CLASS ***

This syllabus is TENTATIVE and subject to change